CCB-CC3-21 2021 Costs and Returns Estimate

Cow-Calf Budget: 500-head
Southwestern Idaho – Marsing/Murphy Area,
Owyhee County
Summer on Federal & State Range,
Winter on Harvested Feeds & Crop Aftermath
By Sidnee Rose Hill and Kord Killpack



Background and Assumptions

University of Idaho costs and returns estimates use economic costs—all resources are valued based on market price or opportunity cost. This budget presents typical costs and returns per cow for a 500-head cowcalf operation in the Marsing/Murphy area of Owyhee County in southwestern Idaho plus total costs and returns for the ranch. The forage source is federal and state range. Feeding is necessary in the winter.

Livestock Investment

The livestock investment consists of 500 cows, 25 bulls, and 10 horses. The culling rate is 15 percent, and the cow herd has a 2 percent death loss. The ranch buys two-year-old bulls and replaces them every 4-5 years. The weaned calf crop is 90 percent of the number of cows wintered. Of the 95 weaned heifer calves selected from the calf crop as replacements, 10 are culled because of non-breeding or poor quality, leaving an annual net replacement of 85 head.

Machinery and Equipment

The cow-calf enterprise uses two 3/4-ton pickups (4x4), a 2-ton truck, an 80 HP tractor with a loader, a 150 HP tractor, a feed wagon, stock trailer and a UTV and three ATVs (see Table 4). This equipment complement is minimal but considered adequate. Values on these investments are calculated at 50 percent of new replacement cost to reflect typically aged but functional ranch equipment.

Haying equipment is not included in this budget as hay production is treated as a separate enterprise. Hay and other feeds used as inputs in this cow-calf budget are valued at the market price received by growers FOB the farm.

Buildings and Improvements

The ranch has 25 miles of 4-wire fence, one barn, one set of corrals with working alleys, a set of portable panels, a squeeze chute, a calf table, and an assortment of veterinary equipment. Water is supplied from natural sources. Buildings and improvements are valued at 80 percent of new replacement cost.

Management Practices

The cows calve between February 15 and April 15, but some will calve later in the year. In the winter months, cattle are fed meadow hay and a protein supplement. Replacement heifers are fed alfalfa hay.

Cattle are moved from the ranch to federal or state range around April 15 and graze a combination of federal and state rangeland until August 31. On September 1 cattle are moved to state and private range for grazing through the end of October. After cattle have been gathered and worked, they are moved to crop aftermath until winter-feeding begins around December 15. The freight/shipping distance to pasture is calculated at 80 miles,

with the shipping cost being \$0.125 per cow/per loaded mile.

The top 95 heifer calves are kept as replacements, while the remaining 130 heifers and 225 steer calves are sold in November. Calves are weaned and loaded on trucks the same day. All steer and heifer calves are sold direct.

The costs of selling cattle include checkoff/brand inspection, freight/trucking, and sales commissions. Checkoff/brand inspection costs pertain to all cattle sold in the enterprise including cull animals. Sales commission and freight costs pertain to cull animals only since they are sold through the yard in July and December. Freight/trucking distance for market is calculated at 50 miles, with freight cost being calculated at \$0.125 per cow/per loaded mile.

Veterinary Care

Veterinary care for calves includes viral treatments and 8-way vaccinations (given twice during the year), implants and selenium supplements. Heifer calves are also vaccinated for brucellosis. Cows, bulls, and replacement heifers receive vaccinations for viral infections, including BVD and bacterial infections such as vibriosis and leptospirosis. The herd is treated annually for parasites and the cows are pregnancy checked in the fall. Bulls also receive a breeding soundness evaluation, fertility and trichomoniasis test in late winter/early spring.

Labor Costs

Labor provided by the operator is valued at \$31.12 per hour, based on average wages for agricultural supervisors. Regular livestock labor is valued at \$18.19 per hour. These hourly rates include all applicable payroll taxes and benefits.

Budget Format

In addition to the Background and Assumptions pages, this publication has four tables presenting a variety of costs and returns information.

Table 1 shows both expected revenue and expenses. Expenses are broken into two main categories: operating and ownership. Operating expenses are those that typically vary with the level of production and involve inputs that are used in a single production cycle. Ownership expenses include a systematic cost recovery over the useful life for inputs used in the production process that have a useful life of more than one year.

<u>Table 2</u> is a monthly summary of the cash flow of revenues and expenses based on when the operation occurs and when inputs are purchased.

<u>Table 3</u> is a monthly summary of feed requirements for the different classes of livestock. Daily feed quantities per animal are summarized below.

<u>Table 4</u> lists the purchase price and salvage value of equipment used in this operation, as well as annual capital recovery and interest on retained livestock.

University of Idaho Extension

Table 1: Cow-Calf Budget - Marsing/Murphy Area - Owyhee County, 500 Cow - 2021

Summer on Federal & State Range, Winter on Federal & Private Range

No. of Cows: 500

	Weight		Total Number of Head	Price or	Total	Value or	
	Each	Unit	or Units	Cost/Unit	Value	Cost/Head	Your Value
GROSS RETURNS							
Steer Calves	475	lbs	225	1.78	190,238	380.48	
Heifer Calves	425	lbs	130	1.73	95,583	191.17	
Cull Cows	1240	lbs	75	0.67	62,310	124.62	
Cull Bulls	1800	lbs	6	0.88	9,504	19.01	
Cull Replacement Heifers	900	lbs	10	1.12	10,080	20.16	
TOTAL GROSS RETURNS	}				\$367,714	\$735.43	
ODEDATING COSTS							
OPERATING COSTS Alfalfa Hay		ton	99	180.25	17,845	35.69	
Meadow Hay		ton	707	145.00	102,515	205.03	
Protein Supplement		cwt	225	34.00	7,650	15.30	
•		AUM	2,820	1.35		7.61	
Federal Range State Range		AUM	350	7.32	3,807 2,562	5.12	
-		AUM	1,030	19.50	20,085	40.17	
Private Range		AUM	924	21.66	20,065	40.17	
Crop Aftermath Salt/Mineral		cwt	100	11.00		2.20	
			1		1,100		
Veterinary/Medicine		\$	•	13,208.71	13,209	26.42	
Freight/Trucking to Market		head	91	6.25	569	1.14	
Freight/Trucking to & from F	asture	head	525	10.00	5,250	10.50	
Hired Labor		hour	2,700	18.19	49,113	98.23	
Owner Labor		hour	1,700	31.12	52,904	105.81	
Commission		head	91	22.50	2,047	4.09	
Checkoff/Brand Inspection		head	446	2.96	1,320	2.64	
Machinery (Fuel, Oil, Repair	-)	\$	1	7,287.39	7,287	14.57	
Vehicles (Fuel, Repair)		\$	1	14,609.46	14,609	29.22	
Equipment (Repair)		\$	1	2,233.77	2,234	4.47	
Buildings & Improvements (Repair)	\$	1	3,403.84	3,404	6.81	
Interest on Operating Capita	al	\$	81,881	5.00%	4,094	8.19	
TOTAL OPERATING COST	rs				\$331,618	\$663.24	
NET RETURNS ABOVE OF	PERATING CO	OSTS		-	\$36,096	\$72.19	
014415 DOLUB 00070							
OWNERSHIP COSTS Capital Recovery:							
Purchased Livestock		\$	1	25,622	25,622	51.24	
Buildings & Improvemen	ıts	\$	1	6,725	6,725	13.45	
Machinery		\$	1	4,515	4,515	9.03	
Equipment		\$	1	1,213	1,213	2.43	
Vehicles		\$	1	9,743	9,743	19.49	
verlicles Interest on Retained Livesto	nck	\$	758,000	5.06%	38,355	76.71	
	JUN		1	1,500		3.00	
Taxes & Insurance General Overhead		\$ \$	1	8,000	1,500	16.00	
General Overnead TOTAL OWNERSHIP COS	Te	Ф	1	6,000	8,000 \$05.673		
TOTAL OWNERSHIP COS	13				\$95,673	<u>\$191.35</u>	
TOTAL COSTS					\$427,291	\$854.58	
NET RETURNS ABOVE TO					(\$59,577)	-\$119.15	

Table 2: Monthly Summary of Retur	ns and Ex	oenses.										CCE	3-CC3-21
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Value
Production:													
Steer Calves											190,238		190,238
Heifer Calves													95.583
							40000				95,583	10017	
Cull Cows							18693					43617	62,310
Cull Bulls							9,504						9,504
Cull Replacement Heifers											10,080		10,080
Total Receipts	0	0	0	0	0	0	28,197	0	0	0	295,900	43,617	367,714
O													
Operating Inputs:			4 404	0.004								0.004	4-04-
Alfalfa Hay	4,461	4,461	4,461	2,231								2,231	17,845
Meadow Hay	25,629	25,629	25,629	12,814								12,814	
Protein Supplement	2,550										2,550	2,550	7,650
Federal Range			3,807										3,807
State Range			2,562										2,562
Private Range									10,043	10,043			20,085
Crop Aftermath										5,003	10,007	5,003	20,014
Salt/Mineral	92	92	92	92	92	92	92	92	92	92	92	92	1,100
Veterinary/Medicine			3,302								9,907		13,209
Freight/Trucking to Market		57	-,					341			171		569
Freight/Trucking to & from Pasture		٠.	2,625					• • • • • • • • • • • • • • • • • • • •			2,625		5,250
Hired Labor	2,456	4,911	9,823	9,823	4,911	2,456	2,456	2,456	2,456	2,456	2,625	2,456	49,113
Owner Labor	4,409	4,409	4,409	4,409	4,409	4,409	4,409	4,409	4,409	4,409	4,409	4,409	52,904
Commission		41						266			1,740		2,047
Checkoff/Brand Inspection		26						172			1,122		1,320
Machinery (Fuel, Oil, Repair)	607	607	607	607	607	607	607	607	607	607	607	607	7,287
Vehicles (Fuel, Repair)	1,217	1,217	1,217	1,217	1,217	1,217	1,217	1,217	1,217	1,217	1,217	1,217	14,609
Equipment (Repair)	186	186	186	186	186	186	186	186	186	186	186	186	2,234
Buildings & Improvements (Repair) Interest on Operating Capital	284	284	284	284	284	284	284	284	284	284	284	284 4,094	3,404 4,094
Total Costs	41,890	41,920	59,004	31,662	11,706	9,251	9,251	10,030	19,293	24,296	37,372	35,943	331,618
Net Returns	-41,890	-41,920	-59,004	-31,662	-11,706	-9,251	18,946	-10,030	-19,293	-24,296	258,528	7,674	36,096
Table 3: Monthly Feed Requirement	ts.												
Feed	Units	Jan											Dec
1000	Onics	oun		Mar	Δnr	May	.lun	.lul.	Διια	Sen	Oct	Nov	
			Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alfalfa Hay		20			Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
Replacement Heifers	ton	29	Feb 27	Mar 29	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	
Replacement Heifers Meadow Hay			27	29	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	14
Replacement Heifers Meadow Hay Cows	ton	194	27 175		Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	14 94
Replacement Heifers Meadow Hay Cows Bulls	ton ton	194 14	27 175 13	29 194	· .	May	Jun	Jul	Aug	Sep	Oct	Nov	14 94
Replacement Heifers Meadow Hay Cows Bulls Horses	ton	194	27 175	29	Apr 2	Мау	Jun	Jul	Aug	Sep	Oct	Nov	14 94 7
Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range	ton ton ton	194 14	27 175 13	29 194	2					Sep	Oct	Nov	14 94 7
Replacement Heifers Meadow Hay Cows Bulls Horses Fores Cows	ton ton ton	194 14	27 175 13	29 194	2 470	470	470	470	470	Sep	Oct	Nov	14 94 7
Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range Cows Replacement Heifers	ton ton ton AUM AUM	194 14	27 175 13	29 194	2 470 76	470 76	470 76			Sep	Oct	Nov	14 94 7
Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range Cows Replacement Heifers Bulls	ton ton ton	194 14	27 175 13	29 194	2 470	470	470	470	470	Sep	Oct	Nov	14 94 7
Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range Cows Replacement Heifers Bulls State Range	ton ton ton AUM AUM AUM	194 14	27 175 13	29 194	2 470 76 30	470 76 30	470 76 30	470 76	470 76			Nov	14 94 7
Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range Cows Replacement Heifers Bulls State Range Cows	ton ton ton AUM AUM AUM	194 14	27 175 13	29 194	2 470 76	470 76	470 76	470	470	100	100	Nov	14 94 7
Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range Cows Replacement Heifers Bulls State Range Cows Replacement Heifers	ton ton ton AUM AUM AUM AUM	194 14	27 175 13	29 194	2 470 76 30	470 76 30	470 76 30	470 76	470 76	100 15	100 15	Nov	14 94 7
Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range Cows Replacement Heifers Bulls State Range Cows	ton ton ton AUM AUM AUM	194 14	27 175 13	29 194	2 470 76 30	470 76 30	470 76 30	470 76	470 76	100	100	Nov	14 94 7
Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range Cows Replacement Heifers Bulls State Range Cows Replacement Heifers	ton ton ton AUM AUM AUM AUM	194 14	27 175 13	29 194	2 470 76 30	470 76 30	470 76 30	470 76	470 76	100 15 6	100 15 6	Nov	14 94
Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range Cows Replacement Heifers Bulls State Range Cows Replacement Heifers Bulls State Range Cows Replacement Heifers Bulls	ton ton ton AUM AUM AUM AUM	194 14	27 175 13	29 194	2 470 76 30	470 76 30	470 76 30	470 76	470 76	100 15	100 15	Nov	14 94 7
Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range Cows Replacement Heifers Bulls State Range Cows Replacement Heifers Bulls Strate Range For State Range	ton ton AUM AUM AUM AUM AUM	194 14	27 175 13	29 194	2 470 76 30	470 76 30	470 76 30	470 76	470 76	100 15 6	100 15 6	Nov	14 94 7
Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range Cows Replacement Heifers Bulls State Range Cows Replacement Heifers Bulls Private Range Cows Cows Cows Cows Replacement Heifers Bulls Private Range Cows	ton ton AUM AUM AUM AUM AUM AUM	194 14	27 175 13	29 194	2 470 76 30	470 76 30	470 76 30	470 76	470 76	100 15 6	100 15 6 400	Nov	14 94 7
Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range Cows Replacement Heifers Bulls State Range Cows Replacement Heifers Bulls Private Range Cows Replacement Heifers Bulls Private Range Cows Replacement Heifers	ton ton AUM AUM AUM AUM AUM AUM AUM	194 14	27 175 13	29 194	2 470 76 30	470 76 30	470 76 30	470 76	470 76	100 15 6 400 61	100 15 6 400 61	Nov	14 94
Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range Cows Replacement Heifers Bulls State Range Cows Replacement Heifers Bulls Private Range Cows Replacement Heifers Bulls Horses Horses	ton ton AUM AUM AUM AUM AUM AUM AUM AUM	194 14	27 175 13	29 194	2 470 76 30	470 76 30 30	470 76 30 30	470 76 30	470 76 30	100 15 6 400 61 24	100 15 6 400 61 24	Nov	14 94
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Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range Cows Replacement Heifers Bulls State Range Cows Replacement Heifers Bulls Private Range Cows Replacement Heifers Bulls Private Range Cows Replacement Heifers Bulls Horses Crop Aftermath Cows Replacement Heifers Bulls Replacement Heifers	ton ton AUM AUM AUM AUM AUM AUM AUM AUM AUM AUM	194 14	27 175 13	29 194	2 470 76 30	470 76 30 30	470 76 30 30	470 76 30	470 76 30	100 15 6 400 61 24	100 15 6 400 61 24	500 300 76	14 94 7 2 2 250 15 38
Replacement Heifers Meadow Hay Cows Bulls Horses Federal Range Cows Replacement Heifers Bulls State Range Cows Replacement Heifers Bulls Private Range Cows Replacement Heifers Bulls Private Range Cows Replacement Heifers Bulls Horses Crop Aftermath Cows Replacement Heifers	ton ton AUM AUM AUM AUM AUM AUM AUM AUM AUM AUM	194 14	27 175 13	29 194	2 470 76 30	470 76 30 30	470 76 30 30	470 76 30	470 76 30	100 15 6 400 61 24	100 15 6 400 61 24	500 30	250 15 38 5

Daily Feed Requirements by Livestock Category (Ib fed/head/day)						
Livestock Category	Alfalfa or Grass Hay (lb)	Protein Supple ment (lb)	No. of Days			
Replacement Heifers	20		90			
Replacement Heifers		3	60			
Cows	25		30			
Cows		3	60			
Bulls	30		90			
Horses	25		90			

Table 4: Investment Summary.

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Total Value Salvage/Cuil Livestock Share Life Annual Taxes Australia Annual Taxes Australia Au	\$4,473.00 \$1,043.25 \$477.90 \$731.25
### Renaing ### Re	\$1,043.25 \$477.90
Fencing 63,000 0 100 25 226.80 Corrals & Pens 26,750 10700 100 30 96.30 Water System 5,900 0 100 20 21.24" Barn 12,500 1,250 100 30 45.00 Feed Wagon 800 0 100 10 2.88 Squeeze Chute 1,800 180 100 10 6.48 Vet Equipment 650 65 100 15 2.34 Stock Trailer 11,550 1,155 100 20 41.58 Total \$122,950 \$442.62 Purchased Livestock Horses 25,000 3,600 100 10 Bulls 100,000 19,008 100 4 Total \$125,000 Retained Livestock Beef Replacement Heifers 108,000 63,504 100	\$1,043.25 \$477.90
Corrals & Pens 26,750 10700 100 30 96.30 Water System 5,900 0 100 20 21.24 Barn 12,500 1,250 100 30 45.00 Feed Wagon 800 0 100 10 2.88 Squeeze Chute 1,800 180 100 10 6.48 Vet Equipment 650 65 100 15 2.34 Stock Trailer 11,550 1,155 100 20 41.58 Total \$122,950 \$442.62 Purchased Livestock Horses 25,000 3,600 100 10 Bulls 100,000 19,008 100 4 Total \$125,000	\$1,043.25 \$477.90
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Barn 12,500 1,250 100 30 45.00 Feed Wagon 800 0 100 10 2.88 Squeeze Chute 1,800 180 100 10 6.48 Vet Equipment 650 65 100 15 2.34 Stock Trailer 11,550 1,155 100 20 41.58 Total \$122,950 \$442.62 Purchased Livestock Horses 25,000 3,600 100 10 Bulls 100,000 19,008 100 4 Total \$125,000 Retained Livestock Beef Replacement Heifers 108,000 63,504 100	•
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Squeeze Chute 1,800 180 100 10 6.48 Vet Equipment 650 65 100 15 2.34 Stock Trailer 11,550 1,155 100 20 41.58 Total \$122,950 \$442.62 Purchased Livestock Horses 25,000 3,600 100 10 Bulls 100,000 19,008 100 4 Total \$125,000 Retained Livestock Beef Replacement Heifers 108,000 63,504 100	\$104.00
Vet Equipment Stock Trailer 650 65 100 15 2.34 1.58 Stock Trailer 11,550 1,155 100 20 41.58 Total \$122,950 \$442.62 Purchased Livestock Horses 25,000 3,600 100 10 Bulls 100,000 19,008 100 4 10 4 Total \$125,000 Retained Livestock Beef Replacement Heifers 108,000 63,504 100 100	\$210.60
Stock Trailer 11,550 1,155 100 20 41.58 Total \$122,950 \$442.62 Purchased Livestock 25,000 3,600 100 10 Bulls 100,000 19,008 100 4 Total \$125,000 Retained Livestock Beef Replacement Heifers 108,000 63,504 100	\$56.75
Purchased Livestock Horses 25,000 3,600 100 10 Bulls 100,000 19,008 100 4 Total \$125,000 Retained Livestock Beef Replacement Heifers 108,000 63,504 100	\$842.00
Horses 25,000 3,600 100 10 Bulls 100,000 19,008 100 4 Total \$125,000 Retained Livestock Beef Replacement Heifers 108,000 63,504 100	\$7,938.74
Bulls 100,000 19,008 100 4 Total \$125,000 Retained Livestock Beef Replacement Heifers 108,000 63,504 100	
Bulls 100,000 19,008 100 4 Total \$125,000 Retained Livestock Beef Replacement Heifers 108,000 63,504 100	\$2,782.00
Retained Livestock Beef Replacement Heifers 108,000 63,504 100	\$22,839.74
Beef Replacement Heifers 108,000 63,504 100	\$25,621.74
Beef Replacement Heifers 108,000 63,504 100	
	\$5,464.80 ²
	\$32,890.00 2
Total \$758,000	\$38,354.80
Machinery and Vehicles	
80 hpTractor with Loader 35,600 7,100 20 18 128.16	\$2,451.00
150 hpTractor 30,000 6,000 55 18 108.00	\$2,064.00
2 Pickups 4X4 3/4 ton 60,000 5,000 100 10 564.00	\$7,150.00
2 Ton Truck 40,000 10,000 50 10 376.00	\$3,900.00
Car 10,000 2,500 25 8 94.00*	\$1,162.50
UTV 7,000 4,000 100 10 65.80	\$390.00
3 ATVs 12,000 1,000 100 10 112.80	\$1,430.00
Total \$194,600 \$1,270.16	\$18,547.50

¹ Annual capital recovery is the method of calculating depreciation and interest recommended by the National Task Force on Commodity Costs and Returns Measurement Methods.

This updated budget is based on previous budgets created by Ben Eborn, Scott Jensen, and Neil Rimbey.

The authors – Sidnee Rose Hill was the Program Coordinator for the Idaho Farm Business Management and Benchmarking Program, a USDA-NIFA funded project implemented by the University of Idaho, through May 2022 and is a rancher based in Carey, ID. Kord Killpack is an Extension Educator – Livestock at the University of Idaho based in Bear Lake County, ID. For any questions, please email Kord Killpack at kkillpack@uidaho.edu.

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² Interest on average investment.